	Shaughnessy No.: 059101	
	Date Out of EFBWB: $11/5/90$	
TO:	<u>Dennis Edwards/Candreas</u> Product Manager #12 Registration Division (H7505C)	
FROM:	Henry Nelson, Ph.D., Acting Section Chief Walson Environmental Chemistry Review Section #3 Environmental Fate & Ground Water Branch/EFED (H7507C)	
THRU:	Hank Jacoby, Chief Environmental Fate & Ground Water Branch Environmental Fate and Effects Division (H7507C)	
Attach	ned, please find the EFGWB review of	
Reg./F	File # : 062719-00015	
Chemic	cal Name: Chlorpyrifos	
Туре Р	Product : Insecticide	
Produc	ct Name : Dursban F Insecticidal Chemical	
Compan	ny Name : Dow Elanco	
_ Purpos	se : Review protocol on bioaccumulation in oysters.	
Date R	Received: 8/29/90	
Action	Total Review Time (days): 1.5	
Deferr	cals to: Ecological Effects Branch, EFED	1
	Science Integration & Policy Staff, EFED	
	Non-Dietary Exposure Branch, HED	·
	Dietary Exposure Branch, HED	
	Toxicology Branch I, HED	
	Toxicology Branch II, HED	

DP BARCODE: D154931

CASE: 048009

SUBMISSION: S380962

DATA PACKAGE RECORD

BEAN SHEET

DATE: 08/29/90

Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: REGISTRATION ACTION: PROPOSED TEST PROTOCOL - AMENDMENTS CHEMICAL: 059101 Chlorpyrifos (0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl) ph

>ID#: 062719-00015 DURSBAN F INSECTICIDAL CHEMICAL

COMPANY: 062719 DOWELANCO

PRODUCT MANAGER: 12 DENNIS JR EDWARDS

703-557-2386 ROOM: CM#2

PM TEAM REVIEWER: CANDREAS

RECEIVED DATE: 08/10/90 DUE OUT DATE: 11/28/90

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 154931 EXPEDITE: N DATE SENT: 08/29/90

DATE RET .:

DP TYPE: 001 Submission Related Data Package

ADMIN DUE DATE: 11/07/90

LABEL: N

ASSIGNED TO

DATE / IN

ASSIGNED TO REVR : CBEEGLE DATE IN

DIV : EFED

BRAN: EFGB SECT: CRS1

CONTR:

* * DATA PACKAGE REVIEW INSTRUCTIONS * * *

See cover letter--please review proposed protocol for bioaccumulation study in oysters,

THERE ARE NO ADDITIONAL DATA PACKAGE RECORDS

Herb
EFGW&# 90-0822

ent 11/7

1.0 CHEMICAL:

Common Name- Chlorpyrifos

Chemical Name- 0,0-dimethyl-0-(3,5,6trichloro-2-pyridyl)phosphorothioate

Trade Name- Dursban F Insecticide

Chemical Structure-

Physical/Chemical Properties-

MW: 350.6

Physical State: white solid

Aqueous Sol: 0.5-2 ppm

Vapor Pressure: 1.9E-5 Torr

Log Kow: 4.70

- 2.0 <u>TEST MATERIAL:</u> See attached protocol.
- 3.0 <u>STUDY/ACTION TYPE:</u> Dow Elanco is requesting the review of a protocol for the bioaccumulation of chlorpyrifos in Eastern oysters.

4.0 PROTOCOL/DOCUMENT IDENTIFICATION:

- 1. Letter from Dow Elanco of 10 Aug 1990 to Dennis Edwards (PM 12) of Registration Division (RD) requesting review of protocol.
- 2. Protocol- Chlorpyrifos: A bioaccumulation test with the Eastern oyster (<u>Crassastrea virginica</u>, Wildlife International Ltd, Easton, MD.

5.0 REVIEWED BY:

Herbert L. Manning, Ph.D. Microbiologist, EFGWB/EFED

Signature: Helen I Hanning Date:

6.0 APPROVED BY:

Henry Nelson, Ph.D., Acting Chief Section 3, EFGWB/EFED

Signature: H/Nelson Date: ///z/70

7.0 CONCLUSION:

- 7.1 The EFGWB concludes that, except for the omission noted below, the protocol follows the Agency's current (Oct 1982) environmental fate guidelines and should produce an acceptable study.
- 7.2 While the test material (14C-chlorpyrifos) will be characterized and described, no specific mention was made of providing the position(s) of the 14C label in the chlorpyrifos molecule.

8.0 RECOMMENDATION:

8.1 Inform the registrant that the protocol should produce an acceptable study if the apparent omission to indicate the radiolabel in the chlorpyrifos molecule is included in the study.

9.0 BACKGROUND:

- A. <u>Introduction-</u> Dow Elanco is requesting the review of a protocol for the bioaccumulation of chlorpyrifos in Eastern oysters in compliance with the Second Round Review (SRR) of June 1989 for the reregistration of the insecticide. The bioaccumulation in fish data requirement was satisfied in the SRR; an accumulation study using oysters was an additional requirement imposed by the SRR.
- B. <u>Directions for Use-</u> Chlorpyrifos is an insecticide used to control a wide variety of insects. Various formulations containing chlorpyrifos as the active ingredient are registered for use on field and vegetable crops (corn accounts for 57% of use), tree fruit and nut crops, ornamentals, turf, domestic indoor and outdoor uses, commercial establishments, aquatic non-food uses, terrestrial non-food uses, animal housing, beef cattle, and dogs.
- 10.0 <u>DISCUSSION:</u> See conclusions.
- 11.0 COMPLETION OF ONE-LINER: Not applicable.
- 12.0 CBI APPENDIX: Not applicable.

August 10, 1990



Dennis Edwards
Product Manager (12)
Registration Division (H7504C)
U.S. Environmental Protection Agency
Room 202, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Dear Mr. Edwards:

SUBJECT: CHLORPYRIFOS

REQUEST FOR AGENCY REVIEW OF PROTOCOL FOR BIOCONCENTRATION STUDY IN OYSTERS

In the draft second round Registration Standard for chlorpyrifos (dated June, 1989), the Agency listed a requirement for a 28-day bioaccumulation study with a mollusk. Although the Standard has not been finalized and officially released, we plan to initiate this study in October, 1990. We would appreciate review of the enclosed subject protocol by the appropriate Agency scientists prior to the start of the study.

We appreciate the Agency's assistance. If I can provide any further information, please feel free to contact me at (317) 870-7271.

Sincerely,

George R. Oliver

Product Registration Manager

GRO: 1dh

Enclosure

5

PROTOCOL

CHLORPYRIFOS: A BIOCONCENTRATION TEST WITH THE EASTERN OYSTER (CRASSOSTREA VIRGINICA)

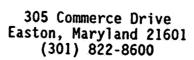
FIFRA, Subdivision N, Series 165-4

Submitted to

The Dow Chemical Company
Health and Environmental Sciences
Environmental Toxicology and Chemical Research Laboratory
Midland, Michigan 48674



WILDLIFE INTERNATIONAL LTD.



July 17, 1990

PROTOCOL NO.: 103/071790/0YS-BIO/DBP8



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· · · · · · · · · · · · · · · · · · ·	Identity of product inert ingredients.
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:	Description of the product manufacturing process.
·	Description of quality control procedures.
	Identity of the source of product ingredients.
	Sales or other commercial/financial information.
,• 	A draft product label.
	The product confidential statement of formula.
	Information about a pending registration action.
<u> </u>	FIFRA registration data.
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